

## Bureau of Alcohol, Tobacco and Firearms, Treasury

§ 21.54

450. Cleaning solutions (including household detergents).  
482. Miscellaneous dye solutions.  
485. Miscellaneous solutions.

(2) As a fluid:

740. Refrigerating uses.  
750. Miscellaneous fluid uses.

(3) Miscellaneous uses:

812. Product development and pilot plant uses (own use only).

### § 21.48 Formula No. 23-F.

(a) *Formula*. To every 100 gallons of alcohol add:

Three pounds of salicylic acid, U.S.P., 1 pound of resorcinol (resorcin), U.S.P., and 1 gallon of bergamot oil, N.F. XI, or bay oil (myrcia oil), N.F. XI.

(b) *Authorized uses*. (1) As a solvent:

111. Hair and scalp preparations.  
210. External pharmaceuticals, not U.S.P. or N.F.

(2) Miscellaneous uses:

812. Product development and pilot plant uses (own use only).

### § 21.49 Formula No. 23-H.

(a) *Formula*. To every 100 gallons of alcohol add:

Eight gallons of acetone, U.S.P., and 1.5 gallons of methyl isobutyl ketone.

(b) *Authorized uses*. (1) As a solvent:

111. Hair and scalp preparations.  
113. Lotions and creams (hand, face, and body).  
210. External pharmaceuticals, not U.S.P. or N.F.  
220. Rubbing alcohols.  
410. Disinfectants, insecticides, fungicides, and other biocides.  
450. Cleaning solutions (including household detergents).

(2) Miscellaneous uses:

812. Product development and pilot plant uses (own use only).

### § 21.50 Formula No. 25.

(a) *Formula*. To every 100 gallons of alcohol add:

Twenty pounds of iodine, U.S.P., and 15 pounds of either potassium iodide, U.S.P., or sodium iodide, U.S.P.

(b) *Authorized uses*. (1) As a solvent:

230. Tinctures of iodine.

249. Miscellaneous external pharmaceuticals, U.S.P. or N.F.

(2) Miscellaneous uses:

812. Product development and pilot plant uses (own use only).

### § 21.51 Formula No. 25-A.

(a) *Formula*. To every 100 gallons of alcohol add:

A solution composed of 20 pounds of iodine, U.S.P.; 15 pounds of either potassium iodide, U.S.P., or sodium iodide, U.S.P.; and 15 pounds of water.

(b) *Authorized uses*. (1) As a solvent:

230. Tinctures of iodine.  
249. Miscellaneous external pharmaceuticals, U.S.P. or N.F.

(2) Miscellaneous uses:

812. Product development and pilot plant uses (own use only).

### § 21.52 Formula No. 27.

(a) *Formula*. To every 100 gallons of alcohol add:

One gallon of rosemary oil, N.F. XII, and 30 pounds of camphor, U.S.P.

(b) *Authorized uses*. (1) As a solvent:

210. External pharmaceuticals, not U.S.P. or N.F.  
243. Liniments, U.S.P. or N.F.

(2) Miscellaneous uses:

812. Product development and pilot plant uses (own use only).

### § 21.53 Formula No. 27-A.

(a) *Formula*. To every 100 gallons of alcohol add:

Thirty-five pounds of camphor, U.S.P., and 1 gallon of clove oil, N.F.

(b) *Authorized uses*. (1) As a solvent:

210. External pharmaceuticals, not U.S.P. or N.F.  
410. Disinfectants, insecticides, fungicides, and other biocides.

(2) Miscellaneous uses:

812. Product development and pilot plant uses (own use only).

### § 21.54 Formula No. 27-B.

(a) *Formula*. To every 100 gallons of alcohol add:

One gallon of lavender oil, N.F., and 100 pounds of green soap, U.S.P.

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NOTE. The requirements of this formula may be met by adding 1 gallon of lavender oil, N.F., and 66.5 pounds of U.S.P. quality soap concentrate containing 25 percent water to 100 gallons of alcohol and, after mixing, by adding thereto 33.5 pounds of water and again mixing.

(b) *Authorized uses.* (1) As a solvent:

- 141. Shampoos.
- 210. External pharmaceuticals, not U.S.P. or N.F.
- 243. Liniments, U.S.P. or N.F.
- 410. Disinfectants insecticides, fungicides, and other biocides.

(2) Miscellaneous uses:

- 812. Product development and pilot plant uses (own use only).

### § 21.55 Formula No. 28-A.

(a) *Formula.* To every 100 gallons of alcohol add:

One gallon or any combination totaling 1 gallon of either gasoline, unleaded gasoline, heptane, or rubber hydrocarbon solvent.

(b) *Authorized uses.* (1) As a fuel:

- 611. Automobile and supplementary fuels.
- 612. Airplane and supplementary fuels.
- 613. Rocket and jet fuels.
- 620. Proprietary heating fuels.
- 630. Other fuel uses.

(2) Miscellaneous uses:

- 812. Product development and pilot plant uses (own use only).

### § 21.56 Formula No. 29.

(a) *Formula.* To every 100 gallons of alcohol add:

One gallon of 100 percent acetaldehyde or 5 gallons of an alcohol solution of acetaldehyde containing not less than 20 percent acetaldehyde, or 1 gallon of ethyl acetate having an ester content of 100 percent, or, where approved by the appropriate ATF officer, as to material and quantity, not less than 6.8 pounds if solid, or 1 gallon if liquid, of any chemical. When material other than acetaldehyde or ethyl acetate is proposed to be used, the user shall submit an application for such use to the appropriate ATF officer. The application shall include specifications, assay methods, and an 8-ounce sample of the substitute material for analysis.

(b) *Authorized uses.* (1) As a raw material:

- 511. Vinegar.
- 512. Acetic acid.
- 521. Ethyl acetate.
- 522. Ethyl chloride.

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- 523. Other ethyl esters.
- 530. Ethylamines.
- 540. Dyes and intermediates.
- 551. Acetaldehyde.
- 552. Other aldehydes.
- 561. Ethyl ether.
- 562. Other ethers.
- 571. Ethylene dibromide.
- 572. Ethylene gas.
- 573. Xanthates.
- 575. Drugs and medicinal chemicals.
- 579. Other chemicals.
- 580. Synthetic rubber.
- 590. Synthetic resins.

(2) Miscellaneous uses:

- 812. Product development and pilot plant uses (own use only).

(c) *Conditions governing use.* This formula is restricted to processes in which the alcohol loses its identity by being converted into other chemicals.

### § 21.57 Formula No. 30.

(a) *Formula.* To every 100 gallons of alcohol add:

Ten gallons of methyl alcohol.

(b) *Authorized uses.* (1) As a solvent:

- 011. Cellulose coatings.
- 012. Synthetic resin coatings.
- 021. Cellulose plastics.
- 022. Non-cellulose plastics, including resins.
- 031. Photographic film and emulsions.
- 035. Soldering flux.
- 036. Adhesives and binders.
- 042. Solvents and thinners (other than proprietary solvents or special industrial solvents).
- 051. Polishes.
- 052. Inks (not including meat branding inks).
- 053. Stains.
- 142. Soap and bath preparations.
- 331. Processing pectin.
- 332. Processing other food products.
- 341. Processing crude drugs.
- 342. Processing glandular products, vitamins, hormones, and yeasts.
- 343. Processing antibiotics and vaccines.
- 344. Processing medicinal chemicals (including alkaloids).
- 345. Processing blood and blood products.
- 349. Miscellaneous drug processing (including manufacture of pills).
- 352. Processing perfume materials and fixatives.
- 353. Processing photographic chemicals.
- 358. Processing other chemicals.
- 359. Processing miscellaneous products.
- 410. Disinfectants, insecticides, fungicides, and other biocides.
- 430. Sterilizing and preserving solutions.
- 440. Industrial detergents and soaps.